

Form PTO-1390

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

P20784

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/806464

INTERNATIONAL APPLICATION NO.

PCT/FR00/02211

INTERNATIONAL FILING DATE

1 August 2000

PRIORITY DATE CLAIMED

2 August 1999

TITLE OF INVENTION

ADHESIVE TAPE COMPRISING A WOVEN POLYESTER SUPPORT DETACHABLE BY HAND

APPLICANT(S) FOR DO/EO/US

Alain GOUX and Rémi BARNET

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.

1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
 2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
 3. ☒ This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)).
 4. ☐ The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).
 5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
 6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
 7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
 8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3))
 9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
"Unexecuted"
 10. ☒ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (U.S.C. 371(c)(5)).
- Items 11 to 16 below concern other document(s) or information included:**
11. ☒ Assignee: SCAPA TAPES FRANCE S.A. of Bellegarde sur Valserine Cedex, FRANCE
 12. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
 13. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
 14. ☒ A FIRST preliminary amendment.
☐ A SECOND or SUBSEQUENT preliminary amendment.
 15. ☐ A substitute specification.
 16. ☐ A change of power of attorney and/or address letter.
 17. ☒ Figure of Drawing to be published 1
 18. ☒ Other items or information:
 - Cover Sheet and International Application as published in French.
 - PCT/IB/304(in French).
 - PCT/IB/308(in French).
 - PCT/ISA/220(in French).
 - PCT/ISA/210(French and English).
 - Cover Letter under 35 USC 371 and 1.494.
 - Claim of Priority and Certified Copy of French Application No. 99/10029.

APPLICATION NO. (If known, see 37 CFR

INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NUMBER

09/806464

PCT/FR00/02211

784

The following fees are submitted:

Basic National Fee (37 CFR 1.492(a)(1)-(5)):

Search report has been prepared by the EPO or JPO. \$ 860.00

International preliminary examination fee paid to USPTO (37 CFR 1.482). \$ 690.00

No international preliminary examination fee paid to USPTO (37 CFR 1.482) but
international search fee paid to USPTO (37 CFR 1.445(a)(2)). \$ 710.00Neither international preliminary examination fee (37 CFR 1.482) nor
international search fee (37 CFR 1.445(a)(2)) paid to USPTO. \$1,000.00International preliminary examination fee paid to USPTO (37 CFR 1.482) and all
claims satisfied provisions of PCT Article 33(2)-(4). \$ 100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

Surcharge of \$130.00 for furnishing the oath or declaration later than ___ 20 ___ 30
months from the earliest claimed priority date (37 CFR 1.492(e)).

Claims	Number Filed	Number Extra	RATE		
Total Claims	10 - 20 =	0	X \$18.00	\$0.00	
Independent Claims	1 - 3 =	0	X \$80.00	\$0.00	
Multiple dependent claim(s) (if applicable)			+ \$270.00	\$0.00	

TOTAL OF ABOVE CALCULATIONS =

Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced
by 1/2.

SUBTOTAL =

Processing fee of \$130.00 for furnishing the English translation later than ___ 20 ___ 30
months from the earliest claimed priority date (37 CFR 1.492(f)).

Extension of Time fee in the amount of \$

TOTAL NATIONAL FEE =

Fee for recording the enclosed assignment (37 CFR 1.21(h). The assignment must be
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property

TOTAL FEES ENCLOSED =

Amount to be
refunded

Charged

a. ☒ A check in the amount of \$860.00 to cover the above fees is enclosed.b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to
Deposit Account No. 19-0089.NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and
granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO CUSTOMER NO. 7055

AT THE PRESENT ADDRESS OF:

Abraham HersHKovitz
GREENBLUM & BERNSTEIN, P.L.C.
1941 Roland Clarke Place
Reston, VA 20191
(703) 716-1191SIGNATURE
Abraham HersHKovitz
NAME45,294
REGISTRATION NUMBER

P20784.A01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Alain GOUX et al.

Serial No : Not Yet Assigned
(U.S. National Phase of PCT/FR00/02211)

Filed : August 1, 2000

For : ADHESIVE TAPE COMPRISING A WOVEN POLYESTER
SUPPORT DETACHABLE BY HAND

PRELIMINARY AMENDMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Prior to the examination of the above-identified patent application, the Examiner is respectfully requested to add the Abstract and amend the claims, as follows:

IN THE SPECIFICATION

Please add the following Abstract of the Disclosure submitted on a separate page appended hereto.

ABSTRACT

Adhesive tape comprising a support woven from threads formed at least in the majority of ethylene polyterephthalate, some of which extend in the longitudinal direction of the tape and others of which extend transversely. A layer of adhesive covers at least one face of the support. The titre of the longitudinal threads per unit width of the tape is lower than the titre of the transverse threads per unit length of the tape and at least equal to 2500 dtex/cm. The longitudinal threads are held in place in the transverse direction by the adhesive, so as to give to the tape a transverse tearing stress of less than 10 N.

IN THE CLAIMS

Please amend the claims, as follows (a marked-up copy of the claims is attached to this document):

3. Adhesive tape according to claim 1, wherein the longitudinal threads are closer and have a lower unit titre than the transverse threads.

4. Adhesive tape according to claim 1, wherein the support comprises between 30 and 50 longitudinal threads per cm width.

5. Adhesive tape according to claim 1, wherein the support comprises between 18 and 27 transverse threads per cm length.

6. Adhesive tape according to claim 1, wherein the titre of the longitudinal threads is between about 40 and 60 dtex.

7. Adhesive tape according to claim 1, wherein the titre of the transverse threads is between 150 and 250 dtex.

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8. Adhesive tape according to claim 1, wherein the adhesive is sensitive to pressure.

9. Adhesive tape according to claim 1, wherein the support is covered with an anti-adhesive layer on its face opposite to the adhesive.

10. Adhesive tape according to claim 1, wherein the threads of the support are dyed in bulk.

SUMMARY AND CONCLUSION

The Examiner is respectfully requested to enter the foregoing amendment prior to examination and calculation of the fees for the above-identified patent application.

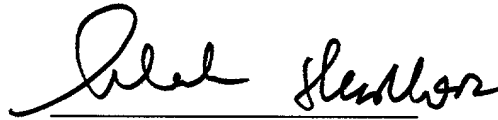
The amendments to the claims made in this amendment have not been made to overcome the prior art, and thus, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto.

Please charge any additional fees necessary for consideration of the papers filed herein and refund excess payments to Deposit Account No. 19-0089.

P20784.A01

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed number.

Respectfully submitted,
Alain GOUX

A handwritten signature in black ink, appearing to read "Abraham HersHKovitz", written over a horizontal line.

Abraham HersHKovitz
Reg. No. 45,294

April 2, 2001
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1941 Roland Clarke Place
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MARKED-UP COPY OF THE CLAIMS

3. Adhesive tape according to [one of the preceding claims] claim 1, wherein the longitudinal threads are closer and have a lower unit titre than the transverse threads.
4. Adhesive tape according to [one of the preceding claims] claim 1, wherein the support comprises between 30 and 50 longitudinal threads per cm width.
5. Adhesive tape according to [one of the preceding claims] claim 1, wherein the support comprises between 18 and 27 transverse threads per cm length.
6. Adhesive tape according to [one of the preceding claims] claim 1, wherein the titre of the longitudinal threads is between about 40 and 60 dtex.
7. Adhesive tape according to [one of the preceding claims] claim 1, wherein the titre of the transverse threads is between 150 and 250 dtex.
8. Adhesive tape according to [one of the preceding claims] claim 1, wherein the adhesive is sensitive to pressure.
9. Adhesive tape according to [one of the preceding claims] claim 1, wherein the support is covered with an anti-adhesive layer on its face opposite to the adhesive.
10. Adhesive tape according to [one of the preceding claims] claim 1, wherein the threads of the support are dyed in bulk.

Adhesive tape comprising a woven support of polyester which is tearable by hand

The invention relates to adhesive tapes in general, and in particular those used for taping bundles of cable, more particularly in car construction.

An important feature of an adhesive tape is that it should be easily tearable by hand. In fact, for a manual application, the tearability of the adhesive tape makes it possible to do away with the use of a cutting tool, which at the same time limits the risk of injury and the handling time.

The tearability of an adhesive tape is linked largely to the support, its compactness, its method of manufacture, but also to the type of fibres used. Each type of fibre is associated with mechanical and physico-chemical properties which define the fields of application of the adhesive tape, in particular in terms of ambient temperature in which the adhesive tape is placed.

Cotton or viscose fabrics, which have currently been used for many years, resist temperatures of 100 to 125°C (thermal class T2 according to the classification adopted in the car industry) and have good manual tearability. Their resistance to abrasion is moderate.

Also used are fabrics of synthetic fibres known in general as polyester fibres. Polyester fabrics bring, by their chemical properties and their appearance, very good resistance to abrasion coupled with good resistance to temperature (150 to 175°C, thermal class T4). Their use is therefore linked to applications where high temperatures are noted (engine bonnets) and where friction against metal parts is possible.

Manufacturing methods using other techniques than weaving give rise to good tearability by hand with polyester fibres, which makes it possible to retain good properties of temperature resistance (classification T3 in the car). These are techniques of manufacturing non-woven supports of the Maliwatt and Malivlies types. Adhesive tapes using such non-woven supports are described in EP 0668336 A, DE 4442092 A and DE 4442093 A. On the other hand,

taking into account the manufacturing method, the resistance to abrasion of this type of substrate is lower than that with a woven base

Table 1 summarises the properties of different types of known adhesive tapes formed from synthetic or natural fibres. The class of temperature refers to car classification.

Table 1

Type of support	Woven		Non-woven	
Type of fibres	Viscose or cotton	Polyester	Maliwatt polyester	Malivlies polyester
Class of temp.	T2 (100°C)	T4 (150°C)	T3 (125°C)	T3 (125°C)
Abrasion resistance	**	***	*	*
Tearability	***	no	**	***

* average

** good

*** excellent

The known adhesive tapes with a polyester fabric base are not tearable by hand, unlike certain other products existing on the market. Taking into account the very good properties of polyester fabrics, there is a real demand for this type of product in a tearable form.

The object of the invention is to supply an adhesive tape with a woven support with a base of polyester fibres having the property of being tearable by hand.

The invention relates in particular to an adhesive tape comprising a woven support from threads formed at least in the majority of polyester fibres, some of which extend in the longitudinal direction of the tape and others of which extend transversely, and an adhesive layer covering at least one face of the support.

The invention provides that the titre of the longitudinal threads per unit width of the tape is lower than the titre of the transverse threads per unit length of the tape and at most equal to 2500 dtex/cm, the longitudinal threads being kept in place in the transverse direction by the adhesive, so as to confer on the tape a transverse tearing stress of less than 10 N.

The titre of the threads per unit width or length is the product of the unit titre of the threads by the number of threads per unit width or length. The lowering of this property for the longitudinal threads, which are normally the warp threads of the fabric forming the support, reduces the transverse tearing stress, i.e. the traction stress which must be exerted on the tape in the longitudinal direction in order to tear it along a transverse line starting from an existing notch. This stress is usually determined by the method AFERA 4007. A value lower than 10 N permits easy tearing by hand.

It is also necessary in this respect to immobilise the longitudinal threads in the transverse direction, without which they move closer together in the direction of one of the sides of the tape when the other side is stressed in traction in order to tear the tape, so that it would be necessary to break a plurality of threads at the same time, which would multiply the force to be exerted in order to achieve breakage. This immobilisation is effected according to the invention by the layer of adhesive covering the woven support, whose contact with each thread is continuous throughout the length thereof, or only has very short interruptions.

Advantageously, the transverse threads are relatively close, i.e. numerous per unit width, which contributes to the stability of the position of the longitudinal threads in the lateral direction.

In order to control the properties of the threads, inter alia the number of elementary filaments composing each of them may be modified.

Optional, complementary or alternative features of the invention are given below:

- The titre of the transverse threads per unit length is between 3000 and 4500 dtex/cm.

- The longitudinal threads are closer and have a unit titre which is lower than the transverse threads.
- The support comprises between 30 and 50 longitudinal threads per cm width.
- The support comprises between 18 and 27 transverse threads per cm length.
- The titre of the longitudinal threads is between about 40 and 60 dtex.
- The titre of the transverse threads is between 150 and 250 dtex.
- The adhesive is sensitive to pressure.
- The support is covered with an anti-adhesive coating on its face opposite to the adhesive.
- The threads of the support are dyed in bulk.

The features and advantages of the invention will be disclosed in more detail in the following description, with reference to the attached drawings.

Figure 1 shows the displacement of the threads of a fabric tape not covered with an adhesive when one tries to tear it manually.

Figure 2 shows the breakage of the longitudinal threads of an adhesive tape according to the invention when one tears the same by hand.

By way of non-limiting example, a fabric was made using threads with multiple filaments formed of polyester fibres, dyed continuously black in bulk by a dye resistant to a temperature of 150°C. Weaving is effected by the method of air jet or water jet, using 40 warp threads per centimetre, with a unit titre of 50 dtex, and 22 weft threads per centimetre, of a unit titre of 167 dtex. The woven support obtained is covered on one face with a pressure-sensitive adhesive with a rubber base modified by resins, dissolved in toluene, and on the other face with an anti-adhesive varnish applied by the technique known as "reverse roll" (coating by cylinder to cylinder transfer). An adhesive tape obtained by cutting out the support thus covered parallel to the warp threads has excellent temperature resistance (thermal class T4) and good resistance to abrasion.

Figure 1 shows the behaviour of the threads of a tape 1 of polyester fabric not covered with adhesive, and/or whose transverse threads are not very close, when one tries to tear it by hand by applying longitudinal traction to one of its edges 2. The longitudinal threads 3 adjacent to the edge 2 are taut and shift along the transverse threads 4 in the direction of the opposite edge 5, thus approaching one another. A plurality of threads are therefore simultaneously under traction, which makes them difficult to break due to the increase in the number of tex per unit width.

Figure 2, where the same reference numbers are used as in Figure 1 to designate similar elements, shows the behaviour in the same conditions of an adhesive tape 10 according to the invention. The longitudinal threads 3 are immobilised in the transverse direction by the layer of adhesive and by a slight spacing of the transverse threads. They are therefore stressed under traction and break one after another.

Table 2 indicates the transverse tearing force determined by the method AFERA 4007 for the adhesive tape of the example above (A) and, by way of comparison, for the support of this tape when not coated (B), for an adhesive tape with a woven support of rayon and sold by the Applicants under the reference 003 (C), and for an adhesive tape with a non-woven support of polyester which is commercially available (D).

Table 2

Tape	A	B	C	D
Transverse tearing stress (N)	3.73	12.03	6.06	8.93

These results underline the optimum tearability of the adhesive tape according to the invention with respect to both the support not covered with adhesive and known adhesive tapes.

The blackening of the threads in bulk, or other colouring, allows the adhesive tape according to the invention to withstand temperatures up to 150°C without alteration of its appearance.

Variable	Mean	SD	Min	Max	Skewness	Kurtosis	Normality
Age	35.2	12.5	18	65	0.15	3.2	0.98
Gender	0.5	0.5	0	1	0.0	3.0	0.99
Education	12.5	2.5	9	16	0.2	3.5	0.97
Income	1500	500	500	3000	0.3	3.8	0.96
Marital Status	0.7	0.5	0	1	0.0	3.0	0.99
Health Status	0.8	0.4	0	1	0.0	3.0	0.99
Stress Level	4.5	1.5	1	7	0.2	3.5	0.97
Life Satisfaction	5.5	1.0	3	7	0.1	3.2	0.98
Work Satisfaction	4.0	1.2	2	6	0.2	3.5	0.97
Family Satisfaction	5.0	1.1	3	7	0.1	3.2	0.98
Community Satisfaction	4.5	1.3	2	7	0.2	3.5	0.97
Overall Satisfaction	4.8	1.2	2	7	0.2	3.5	0.97

Claims

1. Adhesive tape (10) comprising a support (1) woven from threads formed at least in the majority of ethylene polyterephthalate, some of which (3) extend in the longitudinal direction of the tape and others of which (4) extend transversely, and a layer of adhesive covering at least one face of the support, characterised in that the titre of the longitudinal threads per unit width of the tape is lower than the titre of the transverse threads per unit length of the tape and at least equal to 2500 dtex/cm, the longitudinal threads being held in place in the transverse direction by the adhesive, so as to give to the tape a transverse tearing stress of less than 10 N.
2. Adhesive tape according to claim 1, wherein the titre of the transverse threads per unit length is between 3000 and 4500 dtex/cm.
3. Adhesive tape according to one of the preceding claims, wherein the longitudinal threads are closer and have a lower unit titre than the transverse threads.
4. Adhesive tape according to one of the preceding claims, wherein the support comprises between 30 and 50 longitudinal threads per cm width.
5. Adhesive tape according to one of the preceding claims, wherein the support comprises between 18 and 27 transverse threads per cm length.
6. Adhesive tape according to one of the preceding claims, wherein the titre of the longitudinal threads is between about 40 and 60 dtex.
7. Adhesive tape according to one of the preceding claims, wherein the titre of the transverse threads is between 150 and 250 dtex.
8. Adhesive tape according to one of the preceding claims, wherein the adhesive is sensitive to pressure.

9. Adhesive tape according to one of the preceding claims, wherein the support is covered with an anti-adhesive layer on its face opposite to the adhesive.
10. Adhesive tape according to one of the preceding claims, wherein the threads of the support are dyed in bulk.

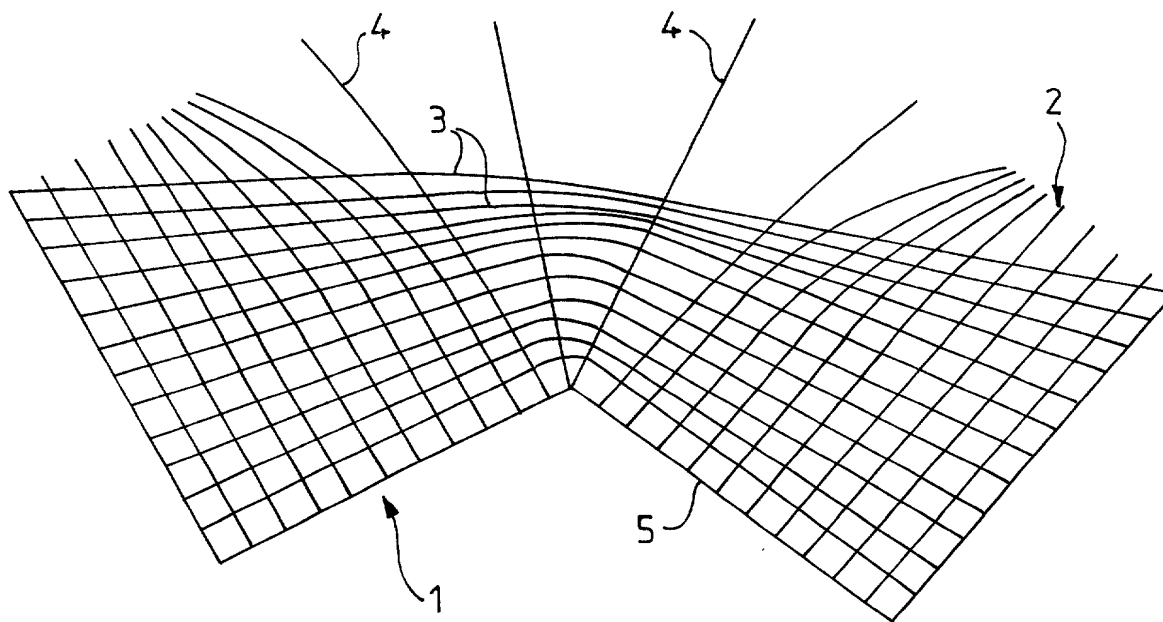


FIG.1

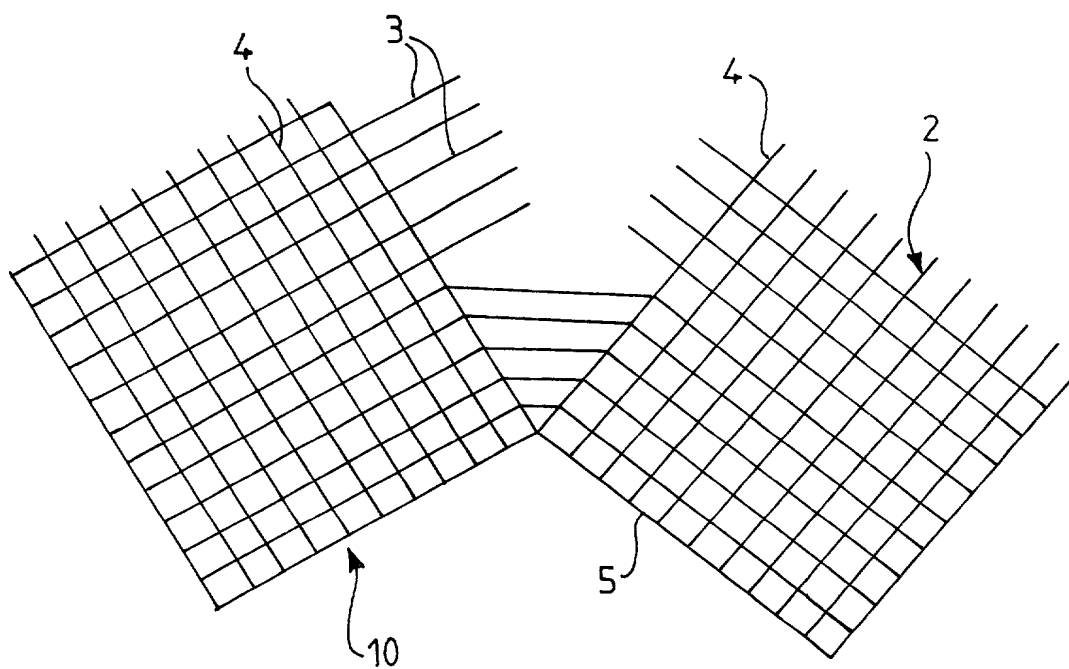


FIG.2

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

the specification of which: (check one)

☐ is attached hereto. ☐ was filed on 01.08.2000 ~~XXXXXX~~ or PCT International Application Number PCT/FR00/02211 and was amended on 19 (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR § 1.56(a).

Prior Foreign Application(s): I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate listed below, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

99/10029

(Application No.)

FRANCE

(Country)

02.08.1999

(Day/Month/Year Filed)

☒ ☐ ☐

Yes No

(Application No.)

(Country)

(Day/Month/Year Filed)

☐ ☐ ☐

Yes No

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.

Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by 35 U.S.C. § 112, first paragraph, I acknowledge the duty to disclose material information as defined in 37 CFR § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(U.S. Application Serial No.)

(U.S. Filing Date)

(Status--patented, pending, abandoned)

(U.S. Application Serial No.)

(U.S. Filing Date)

(Status--patented, pending, abandoned)

I hereby appoint Elliott I. Pollock, Registration No. 16,906; George Vande Sande, Registration No. 17,276; Burton A. Amernick, Registration No. 24,852; Stanley B. Green, Registration No. 24,351; Richard Wiener, Registration No. 18,741; Townsend M. Belser, Jr., Registration No. 22,956; Morris Liss, Registration No. 24,510; Martin Abramson, Registration No. 25,787; George R. Pettit, Registration No. 27,369; Elzbieta Chlopecka, Registration No. 32,767; Eric J. Franklin, Registration No. 37,134; Jeffri A. Kaminski, Registration Number P-42,709; and William E. Curry, Registration Number P43,572, my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Send Correspondence and Direct Telephone Calls to:

Elzbieta Chlopecka
(202) 331-7111

Elzbieta Chlopecka
Pollock, Vande Sande & Amernick, R.L.P.
P.O. Box 19088
Washington, D.C. 20036-3425 U.S.A.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: GOUX Alain

Inventor's Signature Alain Goux

Date: 22.03.2001

Residence Address 19, rue Impasse du Richaud - F-01120 NIEVROZ - France

Citizenship FRANCE

Post Office Address Same as residence address.

☒ See next page for additional inventors

DECLARATION FOR PATENT APPLICATION

Page Two

Full name of second joint inventor (if any): BARNET Rémi
Inventor's Signature *g-d* Rémi Barnett Date 09.09.01
Residence Address 8, rue Diderot - F-73000 CHAMBERY (France) FKX
Citizenship FRANCE
Post Office Address same as residence adress

Full name of third joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____

Full name of fourth joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____

Full name of fifth joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____

Full name of sixth joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____

Full name of seventh joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____

Full name of eighth joint inventor (if any): _____
Inventor's Signature _____ Date _____
Residence Address _____
Citizenship _____
Post Office Address _____